SOUND SERVICES
43 ALBANY ROAD
GU51 3PU FLEET
01252 620227
www.soundservices.co.uk

PMX-162 - Powered Mixer

Powered mixer, 160 WRMS/240 WMAX/4 Ohm

- Audio mixer and audio amplifier built into a wooden housing with black plastic coating
- 4 mono input channels, each with gain control, 2-way tone control and effect control
- 2 stereo input channels, each with gain control, 2-way tone control and effect control
- Integrated USB MP3 player with LCD
- Adjustable digital reverb
- Adjustable effect way
- Tape record and CD/tape play connections
- 15 V phantom power, can be switched centrally
- 5-band graphic equalizer
- LED level display

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Technical data

RMS output power	:	160 W_{RMS}/4 Ohm110 W_{RMS}/8 Ohm
Frequency range	:	20-20,000 Hz
Input sensitivity	:	1.5 mV (mic)50 mV (line)240 mV (tape)1 V (effect return)
Outputs	:	540 mV (tape rec.)1 V (effect send)
S/N ratio	:	77 dB
THD	:	0.1 %
Equalizer	:	
Bass	:	±15 dB/60 Hz
Treble	:	±15 dB/15 kHz
Graphic equalizer	:	±12 dB, 60/250/800 Hz/2/8 kHz
Power supply	:	230 V~/50 Hz/370 VA
Admiss. ambient temp.	:	0-40 °C
Dimensions	:	440x200x305 mm
Weight	:	10.6 kg

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PAB-110MK2 - PA Speaker Cabinet

The 100 series provides PA speaker systems of high power capability with a nice sound for PA and DJ applications and is suitable for medium-sized to large function rooms. The timeless plastic cabinets are also very robust and have extensively been tested in practical operation. **DJ and power speaker system, 400 WMAX, 8 Ohm**

- Full range system of high power capability and of high efficiency
- Robust plastic cabinet
- 25 cm (10") bass speaker with diecast aluminium basket
- 25 mm (1", 34 mm voice coil) horn tweeter
- Bass-reflex system
- Multi-purpose positioning and installation options
- M8 threaded inserts (2 x top, 1 x bottom)
- 2 x speaker terminal, in/out
- Stand sleeve and carrying handle

Due to the centre of gravity inside these very compact cabinets, stands with legs of a sufficient size have to be selected for the PAK-110MK2 and the PAB-110MK2, e.g. PAST-164/SW. **KEYBOARDS 01/2012** "For anyone who likes the combination of a passive PA speaker system and a separate power amplifier for live performances, the PAB-110MK2 from IMG Stage Line is going to be a powerful and above all a reliable ally for providing a great sound. ... a useful and easy-to-use tool ... provides a clear and above all a pleasantly defined live sound which can be classified as premium in this price class."+ robust workmanship+ distortion-free also at maximum levels

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Technical data

Bass-midrange speaker	:	25 cm (10")
Power capabilities	:	
Music power	:	400 W_{MAX}
Power rating	:	200 W_{RMS}
General information	:	
Impedance	:	8 Ohm
Frequency range	:	59-20,000 Hz
SPL (1 W/1 m)	:	97 dB
Max. rated SPL	:	120 dB
Admiss. ambient temp.	:	0-40 °C
Dimensions (WxHxD)	:	360x500x260 mm
Weight	:	11.1 kg
Connections	:	2 x SPEAKER par. in/out

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PAB-112MK2 - PA Speaker Cabinet

The 100 series provides PA speaker systems of high power capability with a nice sound for PA and DJ applications and is suitable for medium-sized to large function rooms. The timeless plastic cabinets are also very robust and have extensively been tested in practical operation. **DJ and power speaker system, 500 WMAX, 8 Ohm**

- Full range system of high power capability and of high efficiency
- Robust plastic cabinet
- 30 cm (12") bass speaker with diecast aluminium basket
- 25 mm (1", 34 mm voice coil) horn tweeter
- Bass-reflex system
- Multi-purpose positioning and installation options
- M8 threaded inserts (2 x top, 1 x bottom)
- 2 x speaker terminal, in/out
- Stand sleeve and carrying handle

Beat 06/2012 "The PAB-112MK2 is a really good entry-level unit for getting hooked on DJing. It provides a powerful and well-balanced sound and is of a neat workmanship ... the unit is highly enjoyable. Features a very good price-performance ratio." + neat workmanship + clear sound + lightweight **tastenwelt 02/2012** "The plastic housings are of neat workmanship ... the MMX-842USB is a good choice ... the STA-225 features all standard protective circuits, even a clip limiter can be switched on additionally. A display shows useful information on the operation. The system tested provided a really appealing sound: a nice deep bass reproduction and a clear midrange of the 12" speakers and a full and clear reproduction of the high frequencies, too. With the support of a subwoofer, the volume which can be achieved is already sufficient to

show a great performance at smaller to medium-sized events. Neither the active bass speaker nor the passive top parts provide an unpleasant or even overstrained sound." (PA setup of PAB-112MK2, PSUB-115AK, STA-225, MMX-842USB)

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Technical data

Bass-midrange speaker	:	30 cm (12")
Power capabilities	:	
Music power	:	500 W_{MAX}
Power rating	:	250 W_{RMS}
General information	:	
Impedance	:	8 Ohm
Frequency range	:	55-20,000 Hz
SPL (1 W/1 m)	:	98 dB
Max. rated SPL	:	122 dB
Admiss. ambient temp.	:	0-40 °C
Dimensions (WxHxD)	:	430x580x310 mm
Weight	:	16.1 kg
Connections	:	2 x SPEAKER par. in/out

QU4

Quad UHF Wireless System

Item ref: 171.840, 171.841, 171.842

User Manual

Version 1.1

Introduction

Thank you for choosing the Chord QU4 wireless system. This professional wireless set provides 4 high quality microphones with UHF radio system for freedom of movement without loss of audio quality. Please read this manual before using this item in order to avoid damage and to get the best performance from your purchase.

Package Contents

- UHF quad wireless receiver
- 19" rack ears
- 2 x antennae
- Mains power adapter
- 6.3mm mono jack lead
- 8 x 1.5V AA battery
- QU4-H version – 4 x handheld transmitters
- QU4-N version – 4 x neckband microphones + 4 x beltpack transmitters
- QU4-C version – 2 x handheld transmitters + 2 x neckband microphones + 2 x beltpack transmitters

If you find any accessory is missing or the product has arrived with any problems, please contact your retailer. This product contains no user-serviceable parts so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original package and proof of purchase for any possible replacement or returned demand.

Warning

To prevent the risk of fire or electric shock, do not expose any of the components to rain or moisture.
If liquids are spilled on any component, stop using immediately, allow unit to dry out and have checked by qualified personnel before further use.
Avoid impact or heavy vibration to any of the components, dropping the microphone can cause capsule failure.
No user serviceable parts inside transmitter or receiver - refer servicing to qualified service personnel.

Safety

- Ensure that the correct adapter is used with adequate current rating and that the mains voltage is as stated on the adapter
- Avoid ingress of water or particles into the transmitters or receiver
- Use alkaline or NiMH batteries in the transmitters and remove if unused for long periods
- Observe the correct polarity when replacing batteries

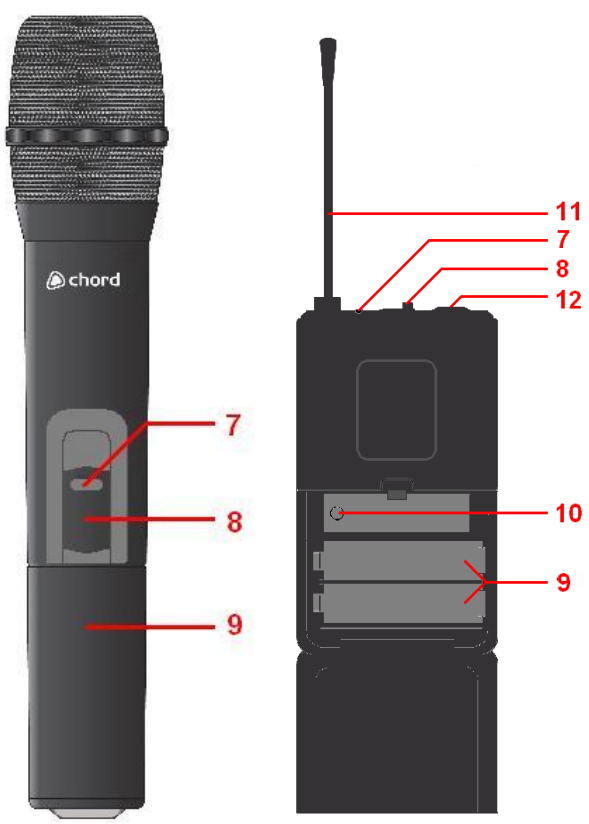
Placement

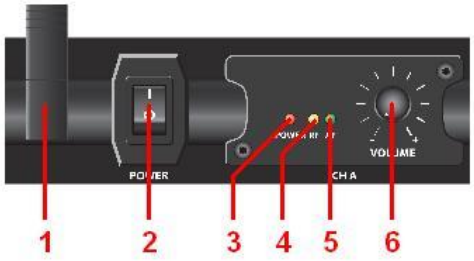
- Keep all components out of direct sunlight and away from heat sources
- Do not place heavy objects on top of the receiver or transmitters
- If rack-mounting, use the rack-ears provided and do not place heavy equipment above the receiver
- Take care to keep antennae from sticking out where they may get damaged
- Keep the transmitters and receiver away from damp or dusty environments

Cleaning

- Use a soft cloth with a neutral detergent to clean the body of the handheld transmitter and receiver.
- Lightly damp sterile wipes may be used on the microphone grilles for hygiene purposes
- To avoid damage, do not use solvents to clean the components

Control Layout





1. Antenna connection (TNC)
2. Power switch
3. Power indicator
4. RF indicator
5. AF indicator
6. VOLUME control
7. On indicator
8. Off – Mute – On switch
9. Battery compartment
10. Gain control
11. Antenna
12. 3.5mm threaded jack socket

Setting Up

Insert the supplied AA batteries into the handheld or beltpack transmitters by carefully unscrewing the base or flipping forward the front cover to reveal the battery compartment inside the transmitter body, connect the batteries (ensure + and - are the correct way round for each cell) and carefully replace the cover. Connect neckband microphones to the relative beltpack transmitters by connecting and screwing in the 3.5mm jack plug fully.

Screw on the front-mounted TNC antennae and position the receiver within the best available line of sight to the transmitter(s). Connect the DC jack of the supplied power adapter to the receiver and the plug top to the mains outlet. Turn microphone level(s) down on the receiver.

A choice of mixed output of all 4 microphones on 6.3mm jack or individual balanced XLR outputs is available on the rear panel of the receiver. Connect jack or XLR (optional) leads to the relative output connector(s), turn down the volume of any equipment (mixer, amplifier etc.) that the signal will be fed into and then connect the jack or XLRs to the equipment.

Warning! - take care not to point microphones towards speakers – this can cause damaging feedback (loud whistle or howling noise) – try to point microphones away from the speaker cabinets.

Operation

Switch on power to the receiver unit and check that the red power LED is lit on each channel (if not, turn the VOLUME rotary control just past the zero point).

Move the switch on the first handheld or beltpack transmitter to the first notch (MUTE) – the LED should light momentarily. Move on another notch (Fully ON) and gradually increase the microphone level on the receiver, then increase the volume on the mixer or amplifier until the sound from each microphone can be heard through the equipment. Repeat for the other 3 microphones.
(Note: if output is low from neckband microphones, it may be necessary to adjust Gain control inside the beltpack unit).

During use, it may be useful for the reception of the microphone to be muted for a short period of time (e.g. to avoid feedback when walking across the front of a speaker or avoid handling noise when placing the microphone down momentarily or adjusting a neckband microphone). In these circumstances, it may be better to move the transmitter switch to the "MUTE" position, which maintains the radio frequency carrier signal but mutes the microphone input. When this switch is moved back to the "ON" position, the sound will be immediately restored without waiting for the radio signal to be reinstated.

If the wireless system is not to be used for more than a few seconds, it is preferable to slide the transmitter switch to the "OFF" position, which mutes and deactivates the radio signal and powers down the transmitter. Be sure to turn down the volume of the mixer or amplifier and then switch off the receiver.

Unplug signal leads from the receiver and mixer or amplifier when moving or packing away.
If the system is not to be used for long periods of time, remove the batteries from the transmitters and unplug the power adapter from the receiver and the mains outlet. Folding away or removing the antennae can also help avoid damage when the system is not in use.

Specifications	
Power supply	12 - 18Vdc 800mA adaptor (supplied)
Batteries	8 x AA (included)
Carrier frequency	863.42, 864.99, 864.30 and 863.01MHz
Stability	10PPM
S/N ratio	>105dB
THD	<0.5% @ 1KHz
Image rejection	85dB typical
Range	60m (max)
Output impedance	2.2k ohms
Output level	Balanced: 0-400mv, unbalanced: 0-200mv
Connectors	DC in, 4 x XLRM, 6.3mm jack
Dimensions - handheld transmitter	243 x 48mmØ
Weight - handheld transmitter	238g (no battery)
Dimensions - beltpack transmitter	205 x 68 x 25mm
Weight - beltpack transmitter	76g (no battery)
Dimensions - receiver	483 x 44 x 225mm
Weight - receiver	3.8kg

Troubleshooting	
"POWER" LED does not light on receiver	Ensure power adapter is connected to mains and working properly
	Ensure receiver is switched on
"POWER" LED is lit but no "RF" or "AF" LEDs	Ensure transmitter is switched on
	Check that transmitter is not out of reception range
	Check that transmitter batteries are good / charged
"POWER" and "RF" LEDs are lit but no "AF" and no sound	Check that transmitter switch is not in "MUTE" position
	Ensure transmitter has good / charged batteries
	Ensure there is no other nearby transmitter with the same frequency
All LEDs lit but no sound from mic	Make sure receiver is properly connected to mixer / amplifier
	Ensure that receiver and amplifier/mixer channel volumes are turned up
Microphone output is very loud or distorted	Turn down VOLUME on receiver
	Reduce Gain on beltpack transmitter
	Reduce Gain on mixer / amplifier
	Ensure that XLR output is not fed to a Line input
Microphone output is very low	Turn up VOLUME on receiver
	Increase Gain on beltpack transmitter
	Increase Gain on mixer / amplifier
	Ensure that Jack output is not fed to a Mic input
	Check transmitter batteries

CE1622

DISPOSAL:

Please dispose of the unserviceable device according to the current statutory requirement

Errors and omissions excepted.
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